



**INVITATION FOR BID NO. GSA-069-16**  
**PORTS AND SWITCHES**

**Amendment # 2**

July 18, 2016

1. Amend to **include/add** the following attached pages:
  - a. Page 18 of 34, Affidavit Disclosing Ownership and Commission
  - b. Page 19 of 34, Affidavit re Contingent Fees
  - c. Pages 35 thru 42 of 42, Revised 07/15/16
2. Amend to **replace** Pages 30 thru 34 of 34 with the attached
  - a. "Page 30 of 42, Revised 07/15/16 "
  - b. "Page 31 of 42, Revised 07/15/16"
  - c. "Page 32 of 42, Revised 07/15/16"
  - d. "Page 33 of 42, Revised 07/15/16"
  - e. "Page 34 of 42, Revised 07/15/16"

All others remain unchanged.

A handwritten signature in blue ink, appearing to read "Anita T. Cruz".

ANITA T. CRUZ

Acting Chief Procurement Officer

Please Print	
ACKNOWLEDGEMENT COPY (Re-fax to GSA)	
Received By:	_____
Date:	_____
Company Name:	_____
Fax to: 475-1727 or 472-4217	
E-mail to: <a href="mailto:gsaprocurement@gsadoa.guam.gov">gsaprocurement@gsadoa.guam.gov</a>	



SPECIFICATIONS:	BIDDING ON/REMARKS/COMPLY
IGMP Tracking	
Inter-Packed Gap (IPG) Adjustment	
Link Fault Signaling (LFS)	
MAC Address Locking: Port Security	
MAC-Layer Filtering	
MAC Learning Disable	
MLD Snooping (v1/v2)	
Multi-Device Authentication	
Per-VLAN Spanning Tree (PVST/PVST+/PVRST)	
Mirroring – Port Based, ACL-Based, MAC Filter-Based and VLAN-Based	
Port Loop Detection	
Private VLAN	
Protocol VLAN (802.1v), Subnet VLAN	
Remote Fault Notification (RFN)	
Single-Instance Spanning Tree	
Single-Link LACP	
Trunk Groups	
Uni-Directional Link Detection (UDLD)	
<b>Base Layer 3 IP Routing:</b>	
IPv4 & IPv6 Static Route	
EMCP	
Port Based Access Control List	
<b>L3/L4 ACLs</b>	
Host Routes	
Virtual Interfaces	
Routed Interfaces	
Route-Only Support	
Routing Between Directly Connected Subnets	
<b>Premium Layer 3 IP Routing:</b>	
IPv4 & IPv6 Sdynamic Route	
RIP v1/v2, RIPng (IPv6)	
OSPF v2, OSPF v3 (IPv6)	
PIM-SM, PIM-SSM, PIM-DM, PIM Passive (IPv4/IPv6 MultiCast Routing Functionality)	
PBR	
Virtual Route Redundancy Protocol (VRRP)	
VRRP-E, VRRP-E (IPv6)	
VRRPv3 (IPv6)	
BGP4, BGP4+ (IPv6)	
GRE	
IPv6 over IPv4 tunnels	
VRF (IPv4 and IPv6)	



SDN Features:

Support Open Flow V1.0 & V1.3

Open Flow Support w/true hybrid port mode

Operates seamlessly under the brocade controller

Quality of Service (QoS):

ACL Mapping and Marking of ToS/DSCP

ACL Mapping and Marking of 802.1p

ACL Mapping to Priority Quene

ACL Mapping to Tos/DSCP

Classifying and Limiting Flows Based on TCP Flags

DHCP Relay

DiffServ Support

Honoring DSCP and 802.1p

MAC Address Mapping to Priority Queue

Priority Queue Management Using Weighted Round Robin (WRR),

Strict Priority (SP) & a Combination of WRR and SP

IEEE & RFC Standards Compliance

Traffic Management

L3 VRRP Protocal Redundancy

Real Time State Synchronization across the Stack

Hitless Failover from Master to Standby Stack Controller

Hot Insertion & Removal of Stacked Units

Redundant hot-swappable power supplies

Input Voltage: AC: 100 to 240 VAC @ 50 to 60 Hz,

DC: 40 to 60 VDC

Power Supply Rated: AC: 2x1,000 W, DC: 2x510 W

PoE Power Budget: 2 AC PS: 1,500 W, 2 DC PS: 516W

Five (5) Year Warranty – Parts & Labor

Must be authorized partner and reseller

Price must be inclusive of all shipping and handling

Bidding on:

Manufacturer:

Make:

Model:

Place of Origin:

Date of Delivery:

ITEM NO.	DESCRIPTION	QTY	UOM	UNIT PRICE	EXTENDED PRICE
2.1	<b>10 GBASE-SR, SFP+ optic (LC)</b> <b><u>As per the following specifications:</u></b>	4	EA.	\$ _____	\$ _____

**SPECIFICATIONS:**

10 GBASE-SR, SFP+ optic (LC), target range 300m over MMF  
Price must be inclusive of all shipping and handling

**BIDDING ON/REMARKS/COMPLY**

\_\_\_\_\_

\_\_\_\_\_

**Bidding On:**  
Manufacturer: \_\_\_\_\_  
  
Make: \_\_\_\_\_  
  
Model: \_\_\_\_\_  
  
Place of Origin: \_\_\_\_\_  
  
Date of Delivery: \_\_\_\_\_

ITEM NO.	DESCRIPTION	QTY	UOM	UNIT PRICE	PRICE EXTENSION
3.1	<b>2M Duplex Multi-Mode 8.3/125 patch cable, as per the following specifications:</b>	4	EA.	\$ _____	\$ _____

**SPECIFICATIONS:**

**2M Duplex multimode 8.3/125 Fiber Optic Patch Cable**  
LC/LC – 6ft  
Price must be inclusive of all shipping and handling

**BIDDING ON/REMARKS/COMPLY**

\_\_\_\_\_

\_\_\_\_\_

**Bidding On:**  
Manufacturer: \_\_\_\_\_  
  
Make: \_\_\_\_\_  
  
Model: \_\_\_\_\_  
  
Place of Origin: \_\_\_\_\_  
  
Date of Delivery: \_\_\_\_\_





Routes: Max 12,000  
 Trunking: 16  
 QOS Priority Queues: 8  
 Jumbo Frame Size: 9216 **Bytes**  
 AC Power Supply 120-220V  
 AC Redundant Power Supply  
 Switching Capacity: 176Gbps  
 Forwarding Capacity 132Mpps

- 802.1s Multiple Spanning Tree
- 802.1x Authentication
- Auto MDI/MDIX
- BPDU Guard, Root Guard
- Dual-Mode VLANs
- MAC-based VLANs, Dynamic MAC based VLAN activation
- Dynamic VLAN Assignment
- Dynamic Voice VLAN Assignment
- Fast Port Span
- GARP VLAN Registration Protocol
- IGMP** Snooping {v1/v2/v3}
- link Fault Signaling (LFS)
- IGMP Vian Registration Protocol
- IGMP Snooping (v1/v2/v3)
- IGMP Proxy for Static Groups
- IGMP v2/v3 Fast leave
- IGMP Tracking
- Inter-Packed -Pap {IPG} adjustment
- MAC Address Locking; Port Security
- MAC-Layer Filtering
- MAC learning Disable
- MLD Snooping {v1/v2}
- Multi-device Authentication
- Per-VLAN Spanning Tree (PVST/PVST +/PVRST)
- Port-based Access Control lists
- Mirroring - Port-based, ACL-based, MAC Filter-based, and VLAN-based •
- Port Loop Detection
- Private VLAN
- Protected Link Groups
- Protocol VLAN (802.1v), Subnet VLAN
- Remote Fault Notification (RFN)
- Single-instance Spanning Tree
- Single-link LACP Trunk Groups
- Uni-Directional Link Detection (UDLD)

- 1 Pv4 & 1 Pv6 statics route
- EMCP
- Port based Access Control List VRRP-E
- 1 Pv6 over 1 Pv4 Tunnels
- OSPF v3
- PIM-SM, PIM-SSM, PIM-DM, PIM passive (IPv4 multicast Routing functionality)
- RIPng

- Support OpenFlow V1.0 & V1.3 Feature
- OpenFlow support w/ true hybrid port mode
- Operates seamlessly under the controller
- Quality of Service (QoS)
- ACL Mapping and Marking of ToS/DSCP
- ACL Mapping and Marking of 802.1p
- ACL Mapping to Priority Queue
- ACL Mapping to ToS/DSCP
- Classifying and Limiting Flows Based on TCP Flags

## This image shows a single page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

**SPECIFICATIONS:**

DHCP Relay  
DiffSery Support  
Honoring DSCP and 802. 1p  
MAC Address Mapping to Priority Queue  
Priority Queue Management using Weighted Round Robin (WRR),  
Strict Priority (SP) & a combination of WRR and SP  
IEEE & RFC Standards Compliance  
High Availability  
L3 VRRP protocal Redundancy  
Real Time state synchronization across the stack  
Hitless failover from master to standby stack controller  
Protected link group  
Hot insertion & removal of stacked units  
Five (5) year warranty -- parts & Labor

**BIDDING ON/REMARKS/COMPLY**

**Note: Office of Technology has upgraded the network with Brocade switches. Specifications is similar to existing Brocade switches installed within the government.**

ITEM NO.	DESCRIPTION	QTY	UOM	UNIT PRICE	PRICE EXTENSION
6.1	<b>24 PORT SWITCH - 4 1Gb SFP PORT BROCADE ICX7250 24 Port</b> <b>As per the following specifications</b>	1	EA	\$ _____	\$ _____

**SPECIFICATIONS:**

RJ-45 Ports: 10/100/1000  
1GB SFP Port Activated (8) w/ Module (2)  
IG STP Single Fiber Module - LR (2)  
Poe+ Class 3 Port 24 port  
Fiber LC-LCPatch Cable 6 feet - (6)  
Direct Attached Copper Cable-Twinax (1)  
Advanced 1Pv4/v6 L3 routing {RIP, OSPF)  
Stacking bandwidth: 80GPS Full Duplex  
Stacking density: 12 Stacking Distance: 10km  
Console Management: USB / Serial w/ cable  
**VLAN:4096**  
Spanning Trees (STP): Max: 254  
MAC Addresses: Max 16,000  
Routes: Max 12,000 Trunking: 16  
QOS Priority Queues: 8  
Jumbo Frame Size: 9216 Bytes  
AC Power Supply 120-220V  
AC Redundant Power Supply  
Switching Capacity: 176Gbps  
Forwarding Capacity 132Mpps  
Layer 2 Switching:  
802.1s Multiple Spanning Tree  
802.1x Authentication  
**Auto MDI/MDIX**  
BPDU Guard, Root Guard  
Dual-Mode VLANs  
MAC-based VLANs, Dynamic MAC based  
VLAN activation  
Dynamic VLAN Assignment  
Dynamic Voice VLAN Assignment  
Fast Port Span  
GARP VLAN Registration Protocol  
IGMP Snooping {v1/v2/v3)  
link Fault Signaling (LFS)  
IGMP Vian Registration Protocol  
IGMP Snooping (v1/v2/v3)

**BIDDING ON/REMARKS/COMPLY**









1 Pv4 & 1 Pv6 statics route

### Port based Access Control list

### 1 Pv6 over 1 Pv4 Tunnels

PIM-SM, PIM-SSM, PIM-DM, PIM passive

RIPng

### Support Open Flow VI.0& VI.3 Feature

Operates seamlessly under the controller

### ACL Mapping and Marking of ToS/DSC

## ACL Mapping to Priority Queue

## Classifying and limiting Flows Based on TCP Flags

DiffSery Support

### MAC Address Mapping to Priority Queue

Round Robin (WRR),

## IEEE & RFC Standards Compliance

### 13 VRRP protocol Redundancy

## Hitless failover from master to standby stack controller

Hot insertion & removal of stacked units

Five (5) Year Warranty- Parts & Labor

RJ-45 Ports: 10/100/1000

1GB SFP Port Activated (8) w/ Module"(2)

IG STP Single Fiber Module - LR (2)

Poe+ Class 3 Port 48 port

Fiber LC-LCPatch Cable 6 feet - (6)

Direct Attached Copper Cable-Twinax (1)

Advanced 1Pv4/v6 L3 routing (RIP, OSPF)

Stacking bandwidth: 80GPS Full Duplex

Stacking density: 12

Stacking Distance: 10km

Console Management: USB / Serial w/cable

VLAN:4096

Spanning Trees (STP): Max: 254

MAC Address-s: Max 16,000

Routes: Max 12,000

Trunking: 16

QOS Priority Queues: 8



Jumbo Frame Size: 9216 Bytes  
AC Power Supply 120-220V  
AC Redundant Power Supply  
Switching Capacity: 176Gbps  
Forwarding Capacity 132Mpps

- 802.1s Multiple Spanning Tree
- 802.1x Authentication
- Auto MDI/MDIX
- BPDU Guard, Root Guard
- Dual-Mode VLANs
- MAC-based VLANs, Dynamic MAC based VLAN activation
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- IGMP Proxy for Static Groups
- IGMP v2/v3 Fast Leave IGMP Tracking
- Inter-Packed Gap (IPG} adjustment
- MAC Address Locking; Port Security
- MAC-Layer Filtering
- MAC Learning Disable
- MLD Snooping (v1/v21
- Multi-device Authentication
- Per-VLAN Spanning Tree (PVST/PVST +/PVRST}
- Port-based Access Control Lists
- Mirroring - Port-based, ACL-based, MAC Filter-based, and VLAN-based
- Port Loop Detection
- Private VLAN
- Protected link Groups
- Protocol VLAN (802.14 Subnet VLAN
- Remote Fault Notification (**RFN**)
- Single-instance Spanning Tree
- Single-link LACP
- Trunk Groups
- Uni-Directional link Detection (UDLD)

- 1 Pv4 & 1 Pv6 statics route
- EMCP
- Port based Access Control list
- VRRP-E
- 1 Pv6 over 1 Pv4 Tunnels
- OSPF v3
- PIM-SM, PIM-SSM, PIM-DM, PIM passive
- (1 Pv4 multicast routing functionality)
- RIPng

Support Open Row V.I.O& V.I.3 Feature  
OpenFlow support w/ true hybrid post mode  
Operates seamlessly under the controller

- ACL Mapping and Marking of ToS/DSC
- ACL Mapping and Marking of 802.1p
- ACL Mapping to Priority Queue
- ACL Mapping tQToS/DSCP
- Classifying and limiting Flows Based on TCP Flags
- DHCP Relay
- DiffSery Support
- Honoring DSCP and 802.1p
- MAC Address Mapping to Priority Queue

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- Priority Queue Management using Weighted Round Robin (WRR), Strict Priority (SP) & a combination of WRR and SP
- IEEE & RFC Standards Compliance
- High Availability
- 13 VRRP protocol Redundancy
- Real Time state synchronization across the stack
- Hitless failover from master to standby stack controller
- Protected link group
- Hot insertion & removal of stacked units
- Five (5) Year Warranty- Parts & Labor

[illegible]

ITEM NO.	DESCRIPTION	QTY	UOM	UNIT PRICE	PRICE EXTENSION
9.1	<b>BROCADE VDX6720-24-1/10Gbe SFP+</b> <b>As per the following specifications</b>	1	EA	\$_____	\$_____

1/10 Gbe SFP+ ports: 24  
Ports on Demand (Pod) increments: 16,24  
Activate 24 Port: 10Gb  
Max Spanning Tree Instances: 32:  
Max Port Profiles (AMPP): 256  
Max Layer 2 Multicast Group: 2000  
VLAN:4096  
MAC Addresses: Max 32,000  
Max Per-Port Priority pause Level: 8  
Max LAG Groups in a VCS fabric: 512  
Max Members in Standard LAG: 16  
Max MAC Addresses in a CS fabric: 30000  
Max Switch in a VCS fabrics: 24  
Max switches in a VCS fabrics: 24  
Max ECMP paths in a VCS fabrics: 8  
Max Truck Members for VCS fabric ports: 8  
Max switches across which a vLAG can span: 4  
Max Members in a VLAG: 16  
Max Jumbo Frame Size: 9208 bytes  
Queues per port: 8  
DCB Priority Flow Control (PFC) classes

[illegible]

- Max Learning and Aging
- Static MAC Configuration
- Link Aggregation Control Protocol (LACP}
- 802.3AD.802.1ax
- VLAN
- VLAN Encapsulation 802.IQ
- Rapid Spanning Tree Protocol (RSTP} 802.ID
- Multiple Spanning Tree Protocol (MSTP} 802.IS
- Per-Vian Spamming Tree (PVST=/{PVRST+)
- StpPortFast&PortFast BDPu Guard
- Layer 2 Access Control Lists (ACL}
- Address Resolution Protocol (ARP) RFC 826
- IGMP vl/v2 Snooping
- Pause Frames 802.3x

- Automatic Fabric Formation
- Distributed Fabric Services
- Transport LAN Services

- Switching Beaconing
- Distributed Configuration Management
- STP Root Guard
- Layer 2 Access Control List (ACLs)
- Address Resolution Protocol (ARP) RFC 826



IGMP VI/V2 Snooping  
Distributed Configuration Management  
STP Root Guard  
Layer 2 Access Control List (ACLs)  
Address Resolution Protocol (ARP) RFC 826  
IGMP VI/V2 Snooping

**DCB Features:**  
Priority-based Flow Control (PFC) 802.1Qbb  
Enhanced Transmission Services (ETS)  
Data Center Bridging Exchange (DCBX)  
DCBX Application Type-Length-Value (TLV) for FCoE and iSCSI

**FCoE Features**  
MultiHop Fiber Channel over Ethernet (FCoE)  
FC-BB5 Compliant Fibre Channel Forwarder (FCF)  
Native FCoE Forwarding  
End-of-end FCoE (Initiator to target)  
FCoE Initialization Protocol (FIP) vl support for FCoE devices  
login and initialization

**Quality of Service (QoS)**  
Eight priority level for QoS  
Class of Services (CoS) 802.1p  
Per-port QoS configuration  
Scheduling Strict Priority (SP), Shaped Deficit  
Weighted Round-Robin (SDWRR)  
Power Supplies: (2) Internal - Redundant  
120/220 Voltage - North America  
Power Cord connects to PON Unit  
Five (5) Year Warranty- Parts & Labor

ITEM NO.	DESCRIPTION	QTY	UOM	UNIT PRICE	PRICE EXTENSION
10.1	BROCADE VDX 6720 1/10Gb SFP+ Module	1	EA	\$_____	\$_____
11.1	BROCADE VDX 6720 1Gb SFP+ Module	1	EA	\$_____	\$_____
12.1	BROCADE VDX 6720 10Gb SFP+ Module	1	EA	\$_____	\$_____
13.1	BROCADE VDX 6720 1GB TX	1	EA	\$_____	\$_____
14.1	BROCADE VDX 6720 10G TX	1	EA	\$_____	\$_____
15.1	BROCADE VDX 6720 10G TWINAX	1	EA	\$_____	\$_____
16.1	LC-LC SINGLE MODE FIBER PATCH CABLE 30 FT.	1	EA	\$_____	\$_____
17.1	BROCADE ICX7250 2x10G-LIC-POD	1	EA	\$_____	\$_____
18.1	BROCADE ICX7250 8x10G-LIC-POD	1	EA	\$_____	\$_____

**Note:** Office of Technology has upgraded the network with Brocade switches. Specifications is similar to existing Brocade switches installed within the government.

The above specifications have been developed by the staff of the Office of Technology, Department of Administration and approved by Christine Baletto, Director of Department of Administration.



**AFFIDAVIT re CONTINGENT FEES**

CITY OF \_\_\_\_\_ )  
ISLAND OF GUAM ) ss.  
)

\_\_\_\_\_ [state name of affiant signing below], being first sworn, deposes  
and says that:

1. The name of the offering company or individual is [state name of company]  
\_\_\_\_\_

2. As a part of the offering company's bid or proposal, to the best of my knowledge, the offering company has not retained any person or agency on a percentage, commission, or other contingent arrangement to secure this contract. This statement is made pursuant to 2 GAR Division 4 § 11108(f).

3. As a part of the offering company's bid or proposal, to the best of my knowledge, the offering company has not retained a person to solicit or secure a contract with the government of Guam upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, except for retention of bona fide employees or bona fide established commercial selling agencies for the purpose of securing business. This statement is made pursuant to 2 GAR Division 4 § 11108(f).

4. I make these statements on behalf of myself as a representative of the offeror, and on behalf of the offeror's officers, representatives, agents, subcontractors, and employees.

\_\_\_\_\_  
Signature of one of the following:

Offeror, if the offeror is an individual;  
Partner, if the offeror is a partnership;  
Officer, if the offeror is a corporation.

Subscribed and sworn to before me  
this \_\_\_\_ day of \_\_\_\_\_, 201\_\_

\_\_\_\_\_  
NOTARY PUBLIC  
My commission expires \_\_\_\_\_

## AFFIDAVIT DISCLOSING OWNERSHIP and COMMISSION

CITY OF \_\_\_\_\_ )  
ISLAND OF GUAM ) ss.

- A. I, the undersigned, being first duly sworn, depose and say that I am an authorized representative of the offeror and that [please check only one]:
- [ ] The offeror is an individual or sole proprietor and owns the entire (100%) interest in the offering business.
- [ ] The offeror is a corporation, partnership, joint venture, or association known as \_\_\_\_\_ [please state name of offeror company], and the persons, companies, partners, or joint venturers who have held more than 10% of the shares of interest in the offering business during the 365 days immediately preceding the submission date of the proposal are as follows [if none, please so state]

<u>Name</u>	<u>Address</u>	<u>% of Interest</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

- B. Further, I say that the persons who have received or are entitled to receive a commission, gratuity or other compensation for procuring or assisting in obtaining business related to the bid or proposal for which this affidavit is submitted are as follows [if none, please so state]:

<u>Name</u>	<u>Address</u>	<u>Compensation</u>
_____	_____	_____

- C. If the ownership of the offering business should change between the time this affidavit is made and the time an award is made or a contract is entered into, then I promise personally to update the disclosure required by 5 GCA §5233 by delivering another affidavit to the government.

\_\_\_\_\_  
Signature of one of the following:  
Offeror, if the offeror is an individual;  
Partner, if the offeror is a partnership;  
Officer, if the offeror is a corporation.

Subscribed and sworn to before me  
this \_\_\_\_ day of \_\_\_\_\_, 201\_\_.

\_\_\_\_\_  
NOTARY PUBLIC  
My commission expires \_\_\_\_\_